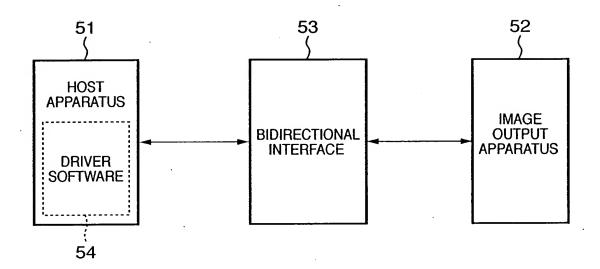
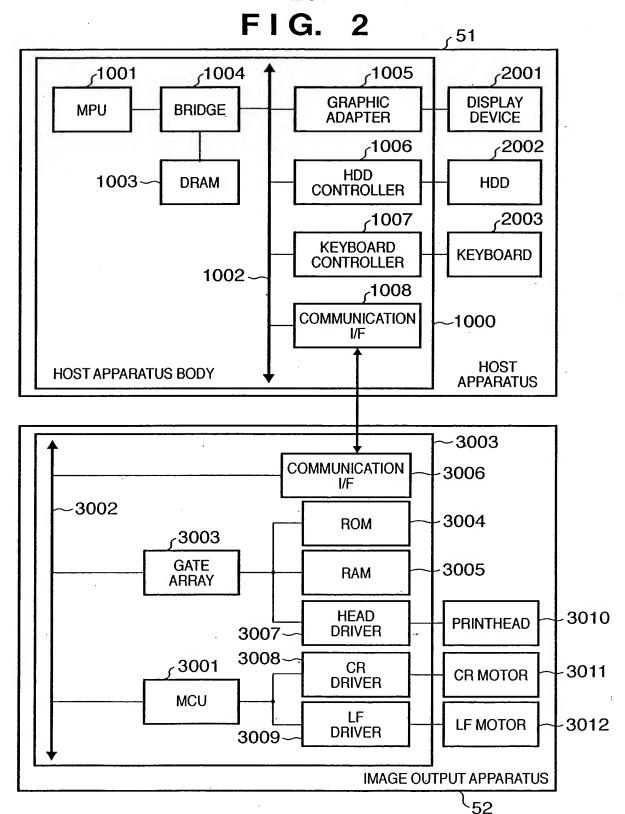
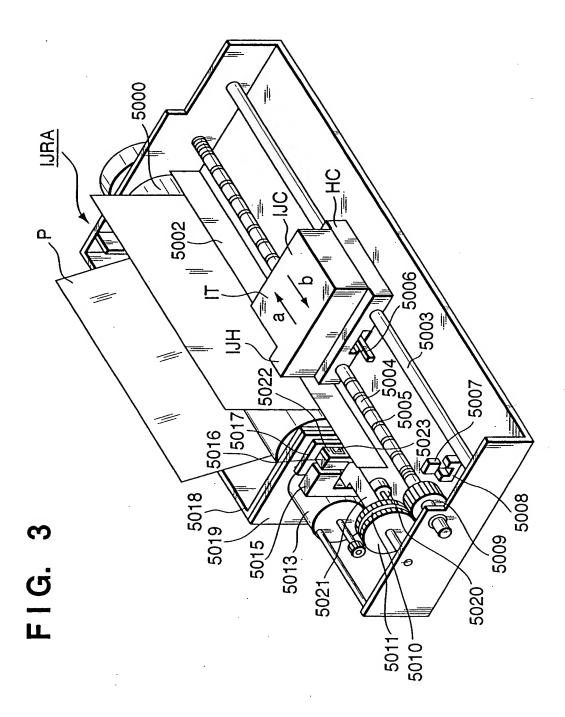


FIG. 1







4/34 IMAGE OUTPUT APPARATUS 52 ~51 HOST APPARATUS SPOOLER 22 PRINT COMMAND GENERATING UNIT 35 HALFTONING UNIT 34 COLOR CHARACTERISTIC CONVERSION UNIT 31-2 ~21 31-1 APPARATUS-SPECIFIC PRINTING FUNCTION APPLICATION SOFTWARE PRINTING INTERFACE APPLICATION SOFTWARE < DRIVER SOFTWARE LEVEL OS LEVEL

FIG. 4

FIG. 5

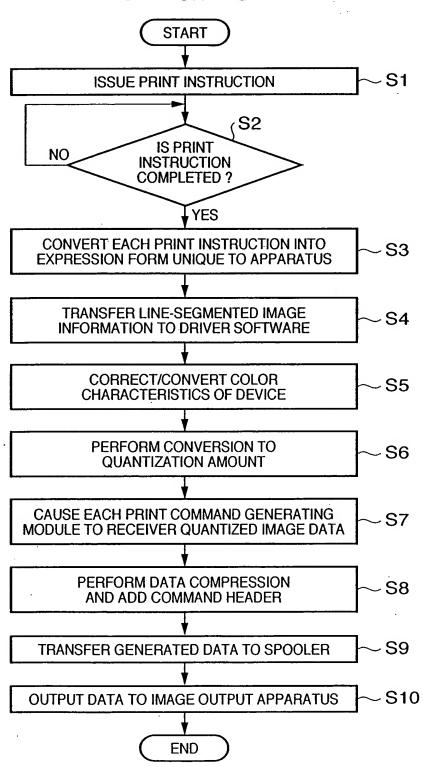


FIG. 6

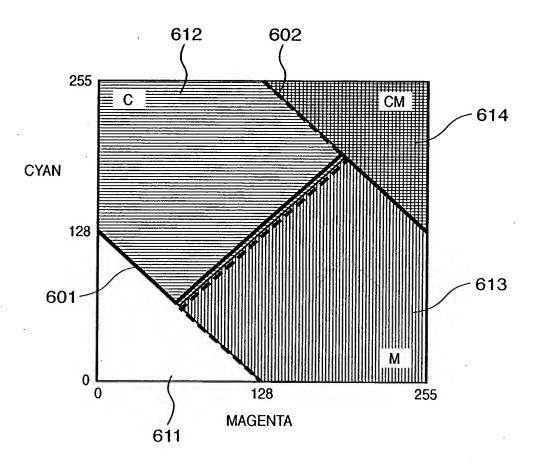


FIG. 7

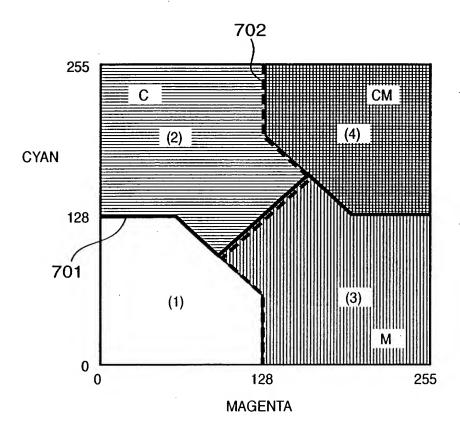


FIG. 8

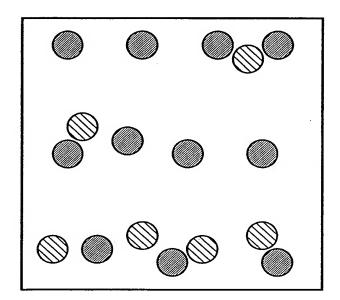


FIG. 9

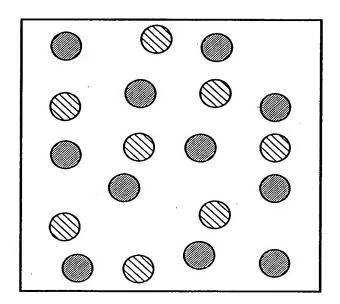


FIG. 10

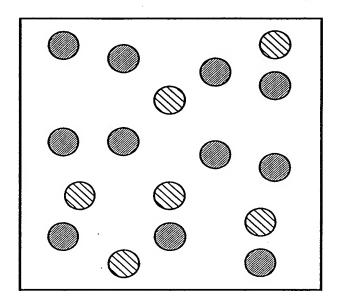
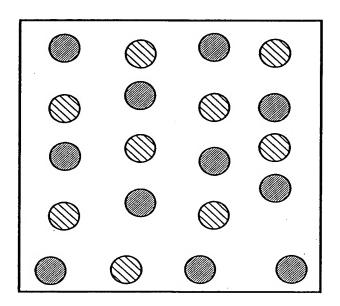
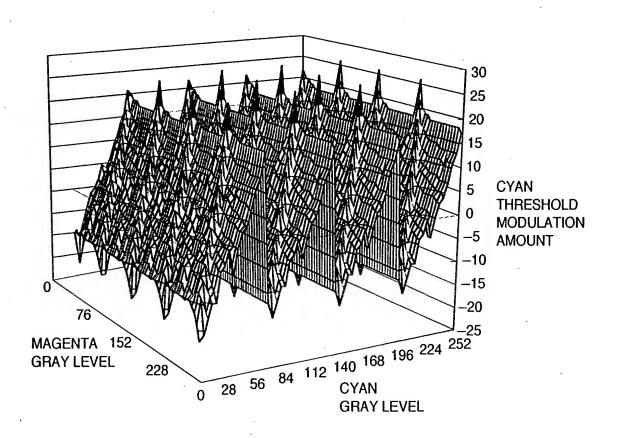


FIG. 11



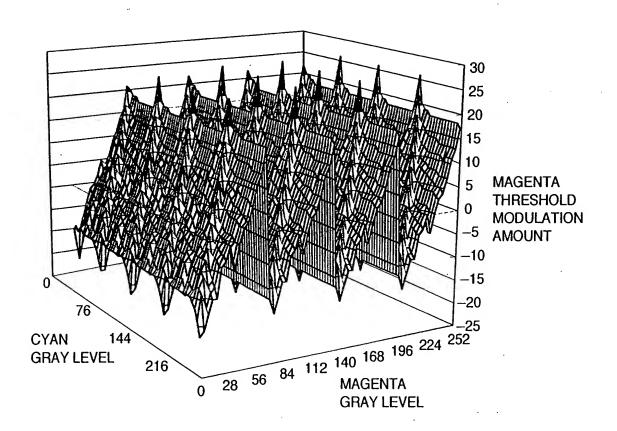
				,						_					_					,
	255	-20	-23	-50	-19	-17	-16	-15	-14				73	14	15	16	17	13	22	7
	254	-18	-21	-20	-18	-17	-16	-15	-14				13	14	15	16	17	19	22	-1
	253	-17	-12	-50	-17	-19	-15	-15	-14				13	14	15	16	17	19	22	-
	252	-17	-12	<u>-</u>	-18	-16	-15	-14	-13				13	14	15	16	17	19	22	-
	251	-16	-12	-	-10	-16	-15	-14	-13				13	1,4	15	16	17	19	.22	1-
	250	-16	-12	-10	-1:0	ဝှ	-15	-14	-13				13	14	15	16	17	19	22	۱-
	249	-15	-12	-10	6-	ဝှ	2-	-14	-13				13	14	15	16	17	19	22	-1
MAGENTA GRAY LEVE	248	-14	-12	-10	<u>ဝှ</u>	ဝှ	φ	တု	-13				13	14	15	16	18	19	22	-1
GR/	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:		:	::	$\vdots$
ENTA	7	-10	-12	-10	6-	ဝှ	φ	2-	2-				15	17	18	19	20	21	23	-1
MAG	9	6-	-12	-11	6-	<u>ဝ</u> -	φ	ထု	-7				22	16	18	19	20	21	22	-1
	2	6-	-12	-11	-10	6-	6-	6-	2-				22	24	17	19	20	21	22	-
	4	6-	-12	-11	-10	-10	6-	8-	φ-			• • •	22	23	25	18	20	22	23	-1
	3	6-	-12	-11	-	-10	o-	6-	ထု		•••		21	22	24	26	19	22	23	-
	2	6-	-12	-12	-11	-10	6-	<b>8-</b>	8-				21	22	24	25	27	21	24	-1
	-	-10	-13	-13	-11	-10	6-	ج8	-7	• • •		•••	21	22	23	25	26	29	24	-1
	0	-10	-23	-20	-19	-17	-16	-15	-14	•••	•••	•••	13	14	15	16	17	19	22	-1
		0	-	2	3	4	2	9	7				248	249	250	251	252	253	254	255
				ئـــا		·	L	L	L		ᆸ		. 4	77	(4)	(4)	. "	(4)		, ,
										Į,										
										?	GRAY LEVEL									

FIG. 13



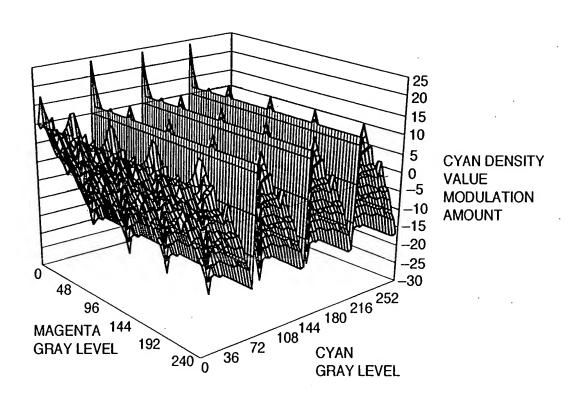
	255	-20	-23	-20	-19	-17	-16	-15	-14				13	4	15	16	17	19	22	-
	254	-18	-21	-20	-18	-17	-16	-15	-14				13	14	15	16	17	19	22	-
	253	-17	-12	-20	-17	-16	-15	-15	-14				13	14	15	16	17	19	22	-1
	252	-17	-12	-11	-18	-16	-15	-14	-13				13	14	15	91	17	61	22	-1
	251	91-	71 <del>.</del>	-11	-10	91-	-15	-14	-13	•••		•••	13	14	91	91	<b>4</b> 1	61	22	1-
	250	91-	-12	-10	01-	6-	-15	-14	-13	:			٤١	14	<u> </u>	9.1	<b>4</b> 1	61	22	l-
	249	-15	-12	-10	6-	6-	<b>L-</b>	-14	-13	•••		•••	81	14	91	91	<b>4</b> 1	61	22	l-
CYAN GRAY LEVE	248	-14	715	-10	6-	6-	ထု	9-	£1-				٤١	14	15	91	81	61	22	L-
₩.	:	:	••	:	:	:	:	:	:	:	:	:	•••	:	:	::	•••	:	•••	:
YANG	7	-10	-12	-10	ဝှ	ဝှ	ထု	2-	-7	• • •			15	17	18	19	20	21	23	-
0	9	<b>6</b> -	-12	-11	6-	6-	8-	8-	2-	•••	•••		22	16	18	19	20	21	22	-
	5	6-	-12	-11	-10	6-	6-	6-	<i>L</i> -	•••			22	24	17	19	20	21	22	-1
:	4	6-	-12	-11	-10	-10	6-	8-	8-	•••			22	23	25	18	20	22	23	-
	3	6-	-12	-11	-11	-10	6-	6-	8-	:	•••		21	22	24	26	19	22	23	-1
	2	6-	-12	-12	-11	-10	6-	8-	<b>8</b> -				21	22	24	25	27	21	24	-1
	7	-10	-13	-13	-11	-10	6-	8-	-7	•••			21	22	23	25	26	29	24	
	0	-10	-23	-20	-19	-17	-16	-15	-14				13	14	15	16	17	19	22	-
<u> </u>	•	0	-	2	3	4	5	9	7				248	249	250	251	252	253	254	255
	•									Ė	GRAY I FVF									

FIG. 15



	255	20	23	20	19	17	16	15	14				-13	-14	-15	-16	-17	-19	-22	-
	254	18	21	20	18	17	16	15	14				-13	-14	-15	-16	-17	-19	-22	-
	253	11	15	20	17	16	15	15	14				-13	-14	-15	-16	-17	-19	-22	-
	252	17	12	11	18	16	15	14	13				-13	-14	-15	-16	-17	-19	-22	_
	251	16	12	1	10	16	15	14	13				-13	-14	-15	-16	-17	-19	-22	-
	250	91	15	10	10	6	<u> </u>	14	13	•			£1-	<b>7</b> l-	<u> </u>	91-	<u> 11-</u>	61-	-22	-
VEL.	249	<u> </u>	12	01	6	6	2	14	٤١	:			£1÷	-14	-15	91-	2l-	-19	-22	1
MAGENTA GRAY LEVE	248	14	12	01	6	6	8	9	٤١	::	•••		E1-	<b>7</b> l-	91-	91-	81-	6l-	-22	-
18 E	:	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		•••	•••		•••	•••	•••	•••	:
ENTA	7	10	12	10	6	6	8	7	7		•••		-15	-17	-18	-19	-20	-21	-23	-
MAG	9	6	12	11	6	6	8	8	7	•••		•••	-22	-16	-18	-19	-20	-21	-22	
	5	6	12	11	10	6	6	6	7	•		:	-22	-24	-17	-19	-20	-21	-22	П
	4	6	12	11	10	10	6	8	8	•••	•••		-22	-23	-25	-18	-20	-22	-23	
	3	6	12	11	11	10	6	6	8			• • •	-21	-22	-24	-26	-19	-22	-23	-
	2	6	12	12	11	10	6	8	8	•••	•••	•••	-21	-22	-24	-25	-27	-21	-24	-
	-	10	13	13	11	10	6	8	7	•••	•••		-21	-22	-23	-25	-26	-29	-24	1
	0	10	23	20	19	17	16	15	14		•••		-13	-14	-15	-16	-17	-19	-22	-
-	-	0	-	2	3	4	5	9	7				248	249	250	251	252	253	254	255
										2	GRAY I EVE									

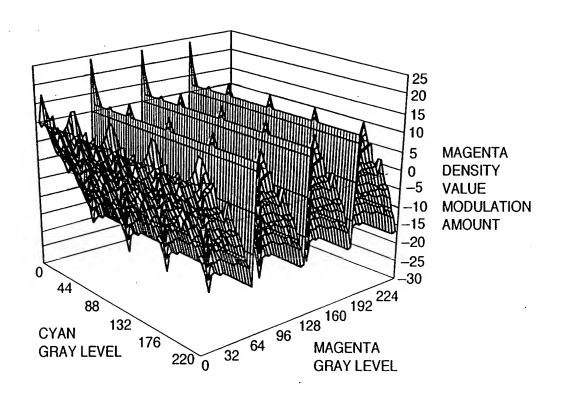
FIG. 17



# FI G. 18

	255	20	23	20	19	17	16	15	14				-13	-14	-15	-16	-17	-19	-22	-
	254	18	21	20	18	17	16	15	14				-13	-14	-15	-16	-17	-19	-22	<b>,</b> —
	253	17	12	20	17	9	15	15	14				-13	-14	-15	-16	-17	-19	-22	-
	252	17	12	Ξ	- 8	16	15	4	13				-13	-14	-15	-16	-1.7	-19	-22	-
	251	16	12	Ξ	0	16	15	4	13				-13	-14	-15	-16	-17	-19	-22	-
	250	16	12	10	0	တ	15	4	13				-13	-14	-15	-16	-17	-19	-22	-
	249	15	12	10	6	6	7	14	13				-13	-14	-15	91-	-17	-19	-22	1
CYAN GRAY LEVE	248	14	12	10	6	6	8	9	13				-13	-14	-15	-16	-18	-19	-22	-
₩	:	:	:	:	::	:	:	:	:	:	:	:		:	::	:	:	:	:	:
ANG	7	10	12	10	6	6	ω	7	7		•••		-15	-17	-18	-19	-20	-21	-23	-
5	9	6	12	11	6	6	8	8	7			•••	-22	-16	-18	-19	-20	-21	-22	-
	5	6	12	11	10	6	6	6	7	•••	•••	•••	-22	-24	-12	-19	-20	-21	-22	-
	4	6	12	11	10	10	6	ω	ω	•••	•••		-22	-23	-25	-18	-20	-22	-23	1
	3	6	12	11	11	10	6	6	8	•••	•••	•••	-21	-22	-24	-26	-19	-22	-23	-
	2	6	12	12	11	10	6	8	8	•••			-21	-22	-24	-25	-27	-21	-24	-
	-	10	13	13	11	10	6	8	7			•••	-21	-22	-23	-25	-26	-29	-24	7
	0	10	23	20	19	17	16	15	14	•••	• • •	•••	-13	-14	-15	-16	-17	-19	-22	_
		0	-	2	3	4	5	9	7				248	249	250	251	252	253	254	255
			لحجما								MAGENIA GRAY I EVEI						<u> </u>			
				.=							SPAC								_	

FIG. 19



	<del></del>		U/3	_	<u> </u>	_	_	<u> </u>	_
	7[	(4,1,3,8)	(7,1,4,4)	(8,2,3,3)	(6,1,1,8)	(6,2,2,6)	(5,1,2,8)	(6,1,5,4)	(3,0,7,6)
	12	(4,0,3,9)	(7,2,3,4)	(7,1,4,4)	(7,1,3,5)	(6,1,3,6)	(6,0,2,8)	(3,1,1,11)	(4,0,3,9)
	10	(3,1,2,10)	(8,0,6,2)	(7,0,7,2)	(6,1,3,6)	(6,2,1,7)	(7,1,2,6)	(4,1,2,9)	(4,1,2,9)
RAY LEVEL	8	(5,1,2,8)	(9,4,1,2)	(7,2,1,6)	(8,2,3,3)	(7,1,5,3)	(5,0,2,9)	(6,1,1,9)	(8'8'0'3)
MAGENTA GRAY LEVEL	9	(8,1,5,2)	(9,1,4,2)	(8,3,1,4)	(8,1,1,6)	(2,0,6,3)	(6,1,1,8)	(6,1,1,8)	(6,2,0,8)
	4	(7,3,3,3)	(9,2,3,2)	(8,2,3,3)	(7,0,5,4)	(7,0,5,4)	(7,2,0,7)	(7,2,0,7)	(7,2,0,7)
	2	(0,7,0,8)	(9,2,2,3)	(8,0,2,6)	(1,9,0,6)	(8,0,6,2)	(8,0,6,2)	(8,2,0,6)	(9,1,2,4)
	0	(0,7,0,6)	(9,0,7,0)	(7,3,3,3)	(8,1,5,2)	(5,1,2,8)	(3,1,2,10)	(4,0,3,9)	(4,1,3,8)
		0	2	4	9	ω	10	12	14
					CYAN	GRAY LEVEL			

FIG. 21

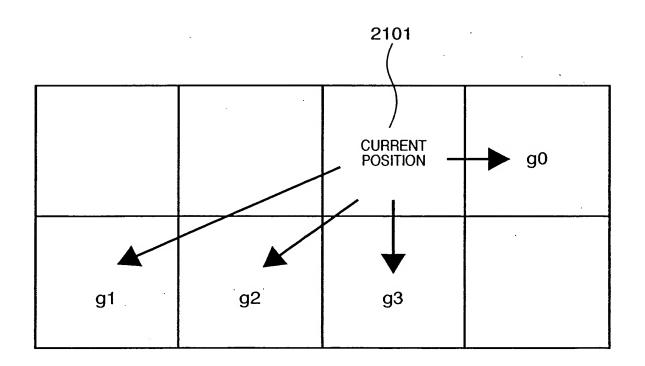
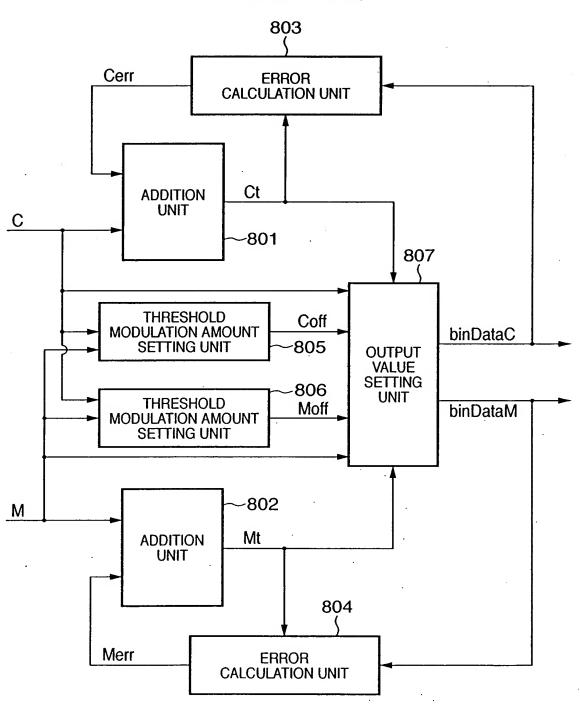


FIG. 22



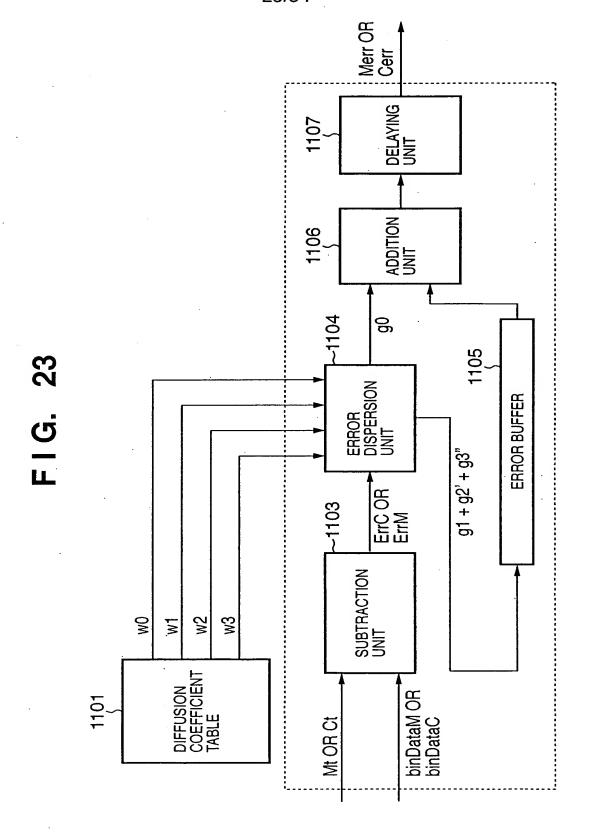


FIG. 24

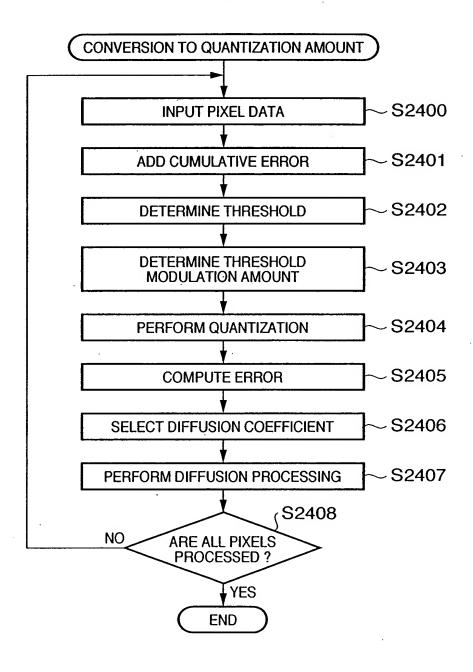


FIG. 25

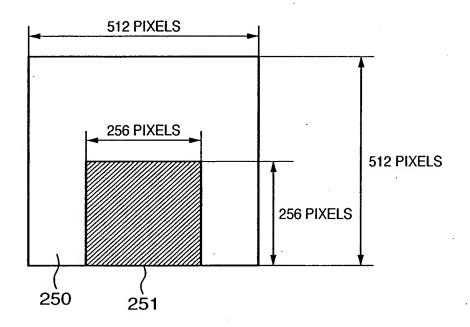


FIG. 26

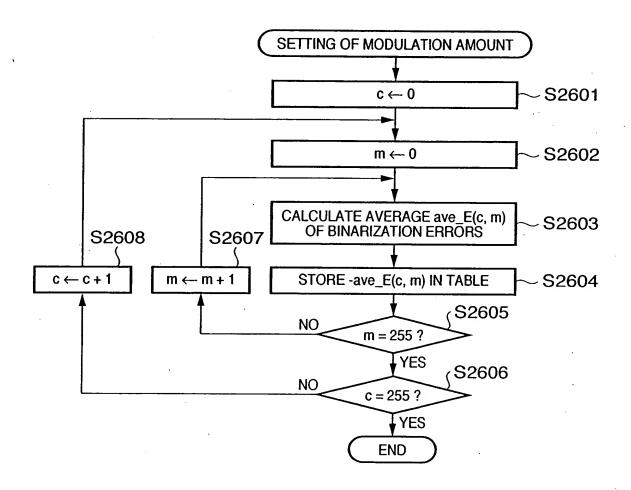
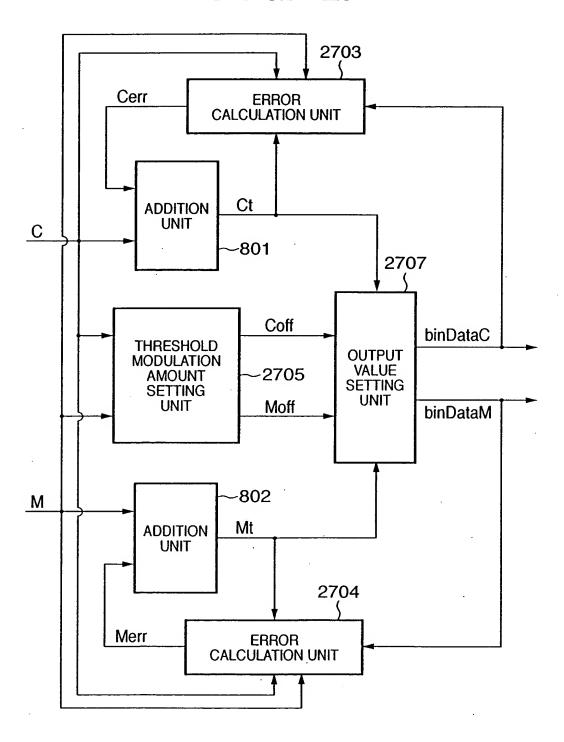


FIG. 27



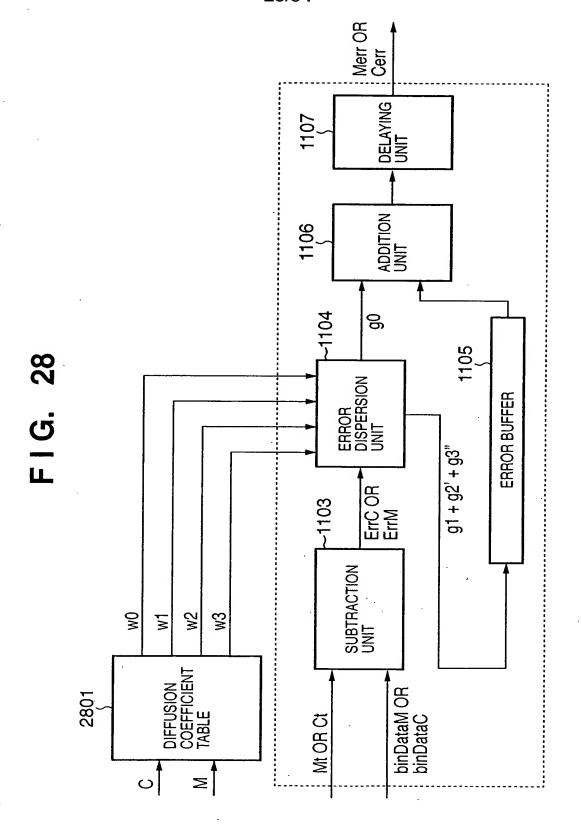


FIG. 29

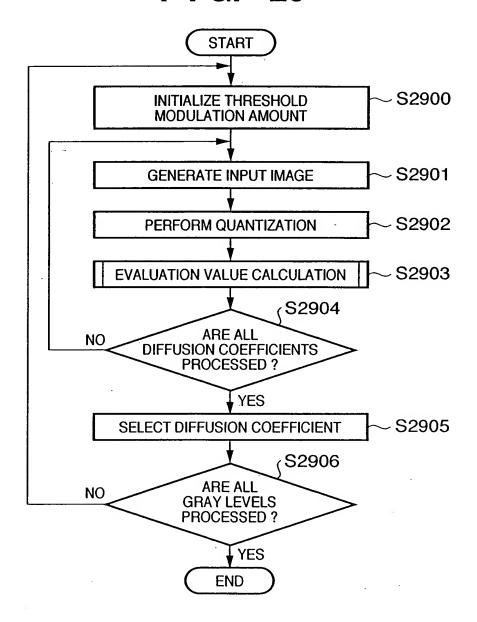


FIG. 30

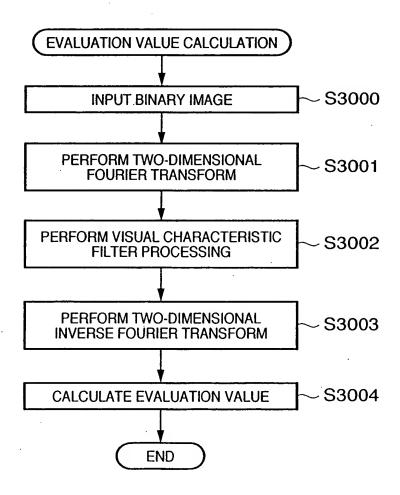
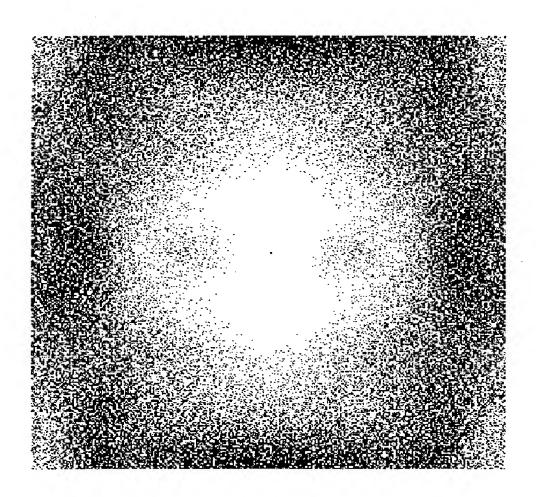
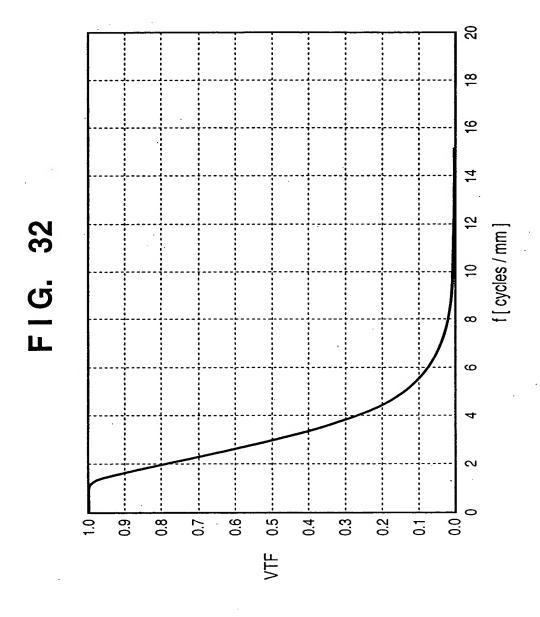


FIG. 31





$$\begin{bmatrix} & * & C0 \\ C1 & C2 & C3 & X \end{bmatrix}$$

$$Cm = Sm/Sum (m = 1,...4)$$

$$Sm = 0,1,...,9$$

$$Sum = \sum_{m=1}^{4} Sm(\neq 0)$$

FIG. 34

